

Notice of Allowability

Application No.

10/621,932

Examiner

Qi Han

Applicant(s)

MELIKSETIAN ET AL.

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment and RCE filed on 08/28/2007.
2. ☒ The allowed claim(s) is/are 1-6, 8, 10-15, 17, 19-24 and 26.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Response to Amendment

2. This communication is responsive to the applicant's amendment and RCE both filed on 08/28/2007. In addition, after a telephone interview with applicant's representative, John E Campbell (52,687) on 9/20/2007, the applicant faxed a copy of further amended claims on 9/21/2007 (see the attachment).

The examiner withdrew the claim rejection under 35 USC 112 101, because the applicant amended the corresponding claims.

The examiner withdrew the claim rejection under 35 USC 112 1st, because the applicant's arguments were persuasive (see Remarks: page 12, last paragraph to page 14, paragraph 3).

Allowable Subject Matter

3. Claims 1-6, 8, 10-15, 17, 19-24 and 26 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent **claims 1, 10 and 19**, the instant application is directed to a computer system method, system and computer readable medium for autonomic computing using a relational grammar. Each of the independent claims, combining certain well-known features in the art, identifies the uniquely distinct features of:

the autonomic relational grammar comprising one or more lexical token statements, one or more category statements and a rule, the rule comprising one or more relationship statements and one or more autonomic action statements;

parsing the input value with the (autonomic) relational grammar to form an autonomic derivation tree, the autonomic derivation tree comprising the first token, a first category, a first relationship and an autonomic action;

using the derived autonomic derivation tree to identify the action to be to be performed; and

the autonomic action comprising any one of: configuring the computer system; optimizing functionality of the computer system; recovering the computer system from a malfunction; or protecting an environment of the computer system.

4. The prior art of record, Zhao et al. (US 2002/004202 A1), Salesin et al. (US 7,120,868 B2), Duan et al. (US 6,721,697 B1), Nasypny (US 2005/0071150 A1), Wittenburg et al. (IDS: "unification-based grammars and tabular parsing for graphical languages"), and Weitzman et al.

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(IDS: “the architecture of information interpretation and presentation of information in dynamic environments”), provided numerous teachings and techniques for parsing languages/texts, including tokenization, using phrase-structure tree derived from a rule-based grammar; adaptive document layout via manifold representations of contents; using token to create connection graph for reducing lexical ambiguity; automatic creation of knowledge from textual documents with self-learning in the form of stochastically indexed system, providing automatic instructions of a system with rules of grammatical and semantic analysis; unification-based grammar formalism and parsing algorithm with derivation tree; visual parsers using trees presenting lexical items, and providing relational grammar approach for dealing with a graph-rewriting problem.

However, the combined features stated above, are not anticipated by, nor made obvious over the prior art of the records.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Conclusion

6. Please address mail to be delivered by the United States Postal Service (USPS) as follows:

Mail Stop ____
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

or faxed to: 571-273-8300, (for formal communications intended for entry)

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Or: 571-273-8300, (for informal or draft communications, and please label "PROPOSED" or "DRAFT")

If no Mail Stop is indicated below, the line beginning Mail Stop should be omitted from the address.

Effective January 14, 2005, except correspondence for Maintenance Fee payments, Deposit Account Replenishments (see 1.25(c)(4)), and Licensing and Review (see 37 CFR 5.1(c) and 5.2(c)), please address correspondence to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolater, etc.) as follows:

U.S. Patent and Trademark Office
Customer Window, Mail Stop _____
Randolph Building
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qi Han whose telephone numbers is (571) 272-7604. The examiner can normally be reached on Monday through Thursday from 9:00 a.m. to 7:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil, can be reached on (571) 272-7602.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Inquiries regarding the status of submissions relating to an application or questions on the Private PAIR system should be directed to the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028 between the hours of 6 a.m. and midnight Monday through Friday EST, or by e-mail at: ebc@uspto.gov. For general information about the PAIR system, see <http://pair-direct.uspto.gov>.

QH/qh
September 21, 2007


RICHEMOND DORVIL
SUPERVISORY PATENT EXAMINER